

Sub Jan 23, 2017

Work Order ID 154704

154704

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Monday, December 19, 2016 3:59:33 PM

Item ID: D4635-043 Accept *N900040100* Setup Start *NS1*
Revision ID: Stop *NS2*
Item Name: Aft Ceiling Panel Assembly, LH
Start Date: 1/6/2017 Start Qty: 1.00 *1* Cust Item ID:
Required Date: 1/19/2017 Req'd Qty: 1.00 *1* Customer:
Reference:

Approvals: Process Plan: DAS 21 Date: DEC 20 2016 Tooling: Date: Run Start *NR1*
QC: 9-89 Date: SPC (Y/N): Date: Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D4635	F								

100

0.00

100

HandThermo

Memo

0.00

Hand Finishing Thermoforming

Pick Kit

DAS 6 JAN 12 2017 9-89

110

0.00

110

Small Fab

Memo

0.16

Small Fab

1- Assemble as per Dwg D4635-043

2-Install speaker

3- Install Air valve

4-Install Wiring Harness

5-Install wiring harness

Smb 17/1/03

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120	QC5- Inspect part completeness to step on W/O	0.00							
120									
QC	Memo	0.00							DAS 9 9-89
Quality Control									
130	Identify as per dwg & Stock Location: <u>PK</u>	0.00							
130									
Packaging	Memo	0.00							JAN 2 5 2017 DAS 9-89
Packaging									
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.02							DAS 21 9-89 JAN 2 6 2017
Quality Control									

JAN 2 5 2017

DAS
21
9-89

DQA: _____ Date: _____



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Picklist Print

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Work Order ID: 154704

154704

Parent Item: D4635-043

D4635-043

Parent Item Name: Aft Ceiling Panel Assembly, LH

Start Date: 1/6/2017

Required Date: 1/19/2017

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev. A 12/08/09 New Issue DL
12/11/08 Doc Release DL
Update 13/07/09 DL ver: DD
13/12/09 DL
Ipp Rev. E Dwg Update 14/01/09 DL
Dwg. Update 15/01/27 DL

IPP Rev B
IPP Rev. C Dwg.
IPP Rev D Dwg Update

IPP Rev. F

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D4652-5 *D4652-5* Air Valve, 1.25 Id Disk Type		Manufactured	No			100	Each	0.0000	1	1			Smb
MS24693-BB51 *MS24693-BB51* Screw		Purchased	No			100	Each	421.0000	4	4			Smb
<u>Location</u> ST288 <u>Loc Qty</u> 421 <u>Loc Code</u>													
D4635-143 *D4635-143* Aft Ceiling Replacement Panel Assembly, LH		Manufactured	No		m128057	100	Each	0.0000	1	1			Smb
D4646-1 *D4646-1* Plenum Cap Assembly		Manufactured	No			100	Each	23.0000	1	1			
<u>Location</u> MF009 <u>Loc Qty</u> 23 <u>Loc Code</u>													
<u>Location</u> 125003 <u>Loc Qty</u> 11 <u>Loc Code</u>													
<u>Location</u> 152626 <u>Loc Qty</u> 12 <u>Loc Code</u>													

B12369
B154724
DAS 6 9-89
JAN 12 2017
JAN 13 2017

DQA: _____ Date: _____



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Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐																																																																				
Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐																																																																				
Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐																																																																				
Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐																																																																				
Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐																																																																				
Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐																																																																				
Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐																																																																				
Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐																																																																				
Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐																																																																				
OTHER :																																																																							

Picklist Print

Page 2

Monday, December 19, 2016 3:59:38 PM

Work Order ID: 154704

154704

Parent Item: D4635-043

D4635-043

Parent Item Name: Aft Ceiling Panel Assembly, LH

Start Date: 1/6/2017

Required Date: 1/19/2017

Start Qty: 1.00

Required Qty: 1.00

D4655-1 Manufactured No

100 Each 17.0000 1 1

D4655-1 ✓

Speaker

**

DAS
6
9-89

JAN 13 2017

Location

Loc Qty

Loc Code

MF002

17

117634

17

D4708-9 Manufactured No

100 Each 14.0000 1 1

D4708-9 ✓

Lanyard

**

DAS
6
9-89

JAN 13 2017

Location

Loc Qty

Loc Code

MF004

14

150077

14

D4728-045 Manufactured No

100 Each 16.0000 1 1

D4728-045 ✓

LH Cabin Speaker #3

**

DAS
6
9-89

JAN 13 2017

Location

Loc Qty

Loc Code

MF002

6

117927

1

124510

5

MF009

10

124510

10

D4728-061 Manufactured No

100 Each 15.0000 1 1

D4728-061 ✓

Cabin Lights Control Relay

**

DAS
6
9-89

JAN 13 2017

Location

Loc Qty

Loc Code

MF002

5

124257

5

over001

10

124257

10

Monday, December 19, 2016 3:59:38 PM

Shop Packet Print

Page 2

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

Picklist Print

Monday, December 19, 2016 3:59:38 PM

Work Order ID: 154704

154704

Parent Item: D4635-043

D4635-043

Parent Item Name: Aft Ceiling Panel Assembly, LH

Start Date: 1/6/2017

Required Date: 1/19/2017

Start Qty: 1.00

Required Qty: 1.00

D4743-1 Manufactured No

100 Each 20.0000 1 1

D4743-1

Speaker Grill

**

DAS
6 JAN 13 2017
9-89

Location Loc Qty Loc Code

MF005 20

149065 20

MS21044-N08 Purchased No

100 Each 34.0000 4 4

MS21044-N08

Nut

**

DAS
6 JAN 12 2017
9-89

Location Loc Qty Loc Code

ST302 34

m131452 34

MS21919-WDG8 Purchased No

100 Each 21.0000 3 3

MS21919-WDG8

Clamp

**

DAS
6 JAN 12 2017
9-89

Location Loc Qty Loc Code

ST293 21

m135408 21

NAS1149DN832J Purchased No

100 Each 1,682.000 4 4

NAS1149DN832.J

Washer

**

DAS
6 JAN 12 2017
9-89

Location Loc Qty Loc Code

ST264 1682

M135297 1682

PLT1.5M-M Purchased No

100 Each 2,735.000 3 3

PI T1 5M-M

Tie Wrap

**

DAS
6 JAN 12 2017
9-89

Location Loc Qty Loc Code

ST585 2735

m129712 2735

DQA: _____ Date: _____



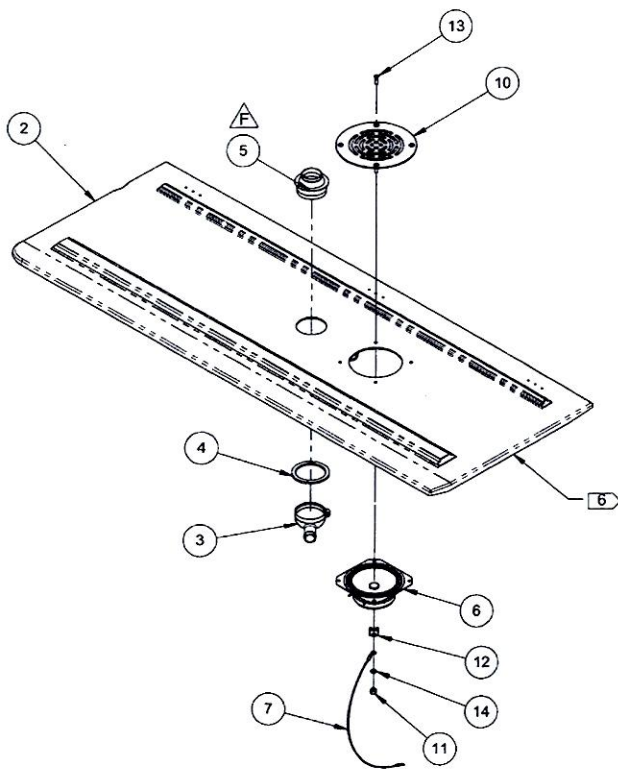
WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QS1042) Approval 	
Description Work Order Deviation				Disposition					
								Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	

Root Cause			FAULT CATEGORY							
Environment	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/Surge	☐	Positioned Wrong
Design	☐	Operator	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions
Doc/Data	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐	Grain	☐	Over/Under tolerance
Equip/Tooling	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐	Weld	☐	Part Incorrect
Handling/Pre	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐	Wrong Stock Pulled	☐	Part Lost/Missing
Material	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐	Out of Sequence	☐	Part Moved
Internal Transport	☐	Poor Information	☐	Crushing	☐	Countersink	☐	Off-set	☐	Drawing
Tribal Knowledge	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐	Mislabeled	☐	Finish
LOA	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐	Fit/Function	☐	Misread
Substation	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐	Misaligned/off center	☐	Turning Sequence
Past Expiry Date	☐	Manufacturing Process	☐	OTHER :						
Misidentified	☐	Past Due	☐							



SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 154704 MJS
16-12-20

D4635-043 LH, AFT CEILING PANEL ASSY

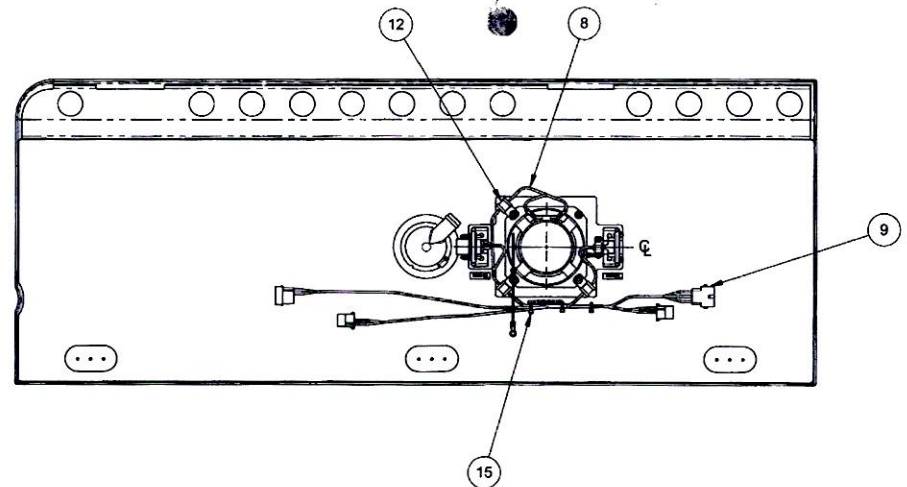
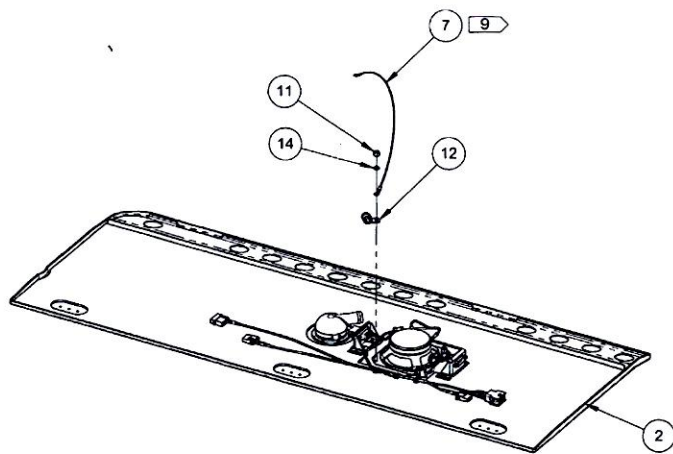
NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.4, ON SMOOTH SIDE
- 7) WEIGHT: 5.0 lbs
- 8) INSTALL D4728-045/-061 WIRE HARNESS PER QSI 048
- 9) ON D4708-9 LANYARD OPEN TO $\phi 0.196$ BOTH ENDS

ITEM	QTY -043	P/N	DESCRIPTION
1	X	D4635-043	LH, AFT CEILING PANEL ASSY
2	1	D4635-143	LH, AFT CEILING REPLACEMENT PANEL ASSY
3	1	D4646-1	PLENUM CAP ASSEMBLY
4	1	D4652-3 (REF)	MOUNTING NUT (PART OF D4652-5)
5	1	D4652-5	AIR VALVE, 1.16 ID DISK TYPE
6	1	D4655-1	SPEAKER
7	1	D4708-9	LANYARD
8	1	D4728-045	LH SPEAKER #3 HARNESS ASSY
9	1	D4728-061	CABIN LIGHTS CONTROL RELAY HARNESS ASSEMBLY
10	1	D4743-1	SPEAKER GRILL
11	4	MS21044-N08	NUT, SELF-LOCKING
12	3	MS21919WDG8	CLAMP
13	4	MS24693-BB51	SCREW, CSK 100*
14	4	NAS1149DN832J	WASHER
15	3	PLT1.5M-M	TIE-WRAP (OR PLT1.5M-C)

RELEASED
2015 JAN 26 *qp*

APPROVED	DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
	DRAWN	RF		
	CHECKED	AK	DRAWING NO. D4635	REV. F
	MFG. APPR.	DL		SHEET 5 OF 18
	APPROVED	HS	TITLE	SCALE
	DE APPR.	DS	OUTBOARD CEILING PANELS	NTS
	DATE	14.11.28	COPYRIGHT © 2012 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD	



D4635-043 LH, AFT CEILING PANEL ASSY
AUXILIARY VIEW

RELEASED
2015 JAN 26 *ap*

APPROVED	DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
	DRAWN	RF		
	CHECKED	AK	DRAWING NO.	REV. F
	MFG. APPR.	DL	D4635	SHEET 6 OF 18
	APPROVED	HS	TITLE	SCALE
	DE APPR.	DS	OUTBOARD CEILING PANELS	NTS
DATE		14.11.28	COPYRIGHT © 2012 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

Daryl Leger

From: David Shepherd
Sent: Thursday, May 14, 2015 12:35 PM
To: Nigel Forbes; Bill Beckett
Cc: Roberto Fuentes; Linda Lacelle; Mario Poulin; Daryl Leger; Harvey Siemens
Subject: RE: 139 Ceilings Deviation

Nigel,

Thanks for the clarification. I have a much better understanding of what happened here. My assumption had been we were holding off ordering parts until the newer, cheaper parts were approved so that we could reduce our costs. There is certainly no Engineering objection to using the existing stock.

On the lights, the part number did not change (still D4638-1) even though the supplier did, so this is not a deviation. Both the Bruce p/n and Emteq p/n are acceptable.

On the vents, the part number changed from D4652-1 to D4652-5 because the appearance of the part was quite different, so all drawings now call up D4652-5. Suggest we get Roberto to issue a DEO that allows the D4652-1 to be used in place of D4652-5 until stock is depleted.

In both cases, we should set aside a portion of the old stock to support customers who already have the kits. Maybe of the lights and 30 of the vents, or something like that.

Regards,
David

From: Nigel Forbes
Sent: May-14-15 8:31 AM
To: David Shepherd; Bill Beckett
Cc: Roberto Fuentes; Linda Lacelle; Mario Poulin; Daryl Leger; Harvey Siemens
Subject: RE: 139 Ceilings Deviation

David,

Apologies for the delay in replying. After reviewing the history on these items, here's the background:

- The lights, long lead time (90+ days) and minimum quantities to get them at \$765 a piece. Plus, these had to be shipped to Mr. Rowe to incorporate in the harnesses and that added to the lead time. So again, we placed a blanket P.O based on forecast and we ended up with these quantities and we can't return them. See below

From: Shonda Wallace/ATL/Satair <sow@satair.com>
Date: May 14, 2015 at 10:09:59 AM EDT
To: Linda Lacelle <llacelle@dartaro.com>
Subject: RE: BR9741-401-001

Linda,

Unfortunately we do not buy parts back.

Best regards,

Shonda Wallace
Customer Order Specialist

Tel: +1 404 675 6328